

*In the Name of Allah*



**Name: Mohammad Taghi Mohammadi**

*Professor, Department of Physiology and Biophysics, Faculty of Medicine, Baqiyatallah University of Medical Sciences, Tehran, IRAN*

***CV (Curriculum Vitae) Form***

<b>Personal Information</b>	<b>Education</b>	<b>Academic Appointments</b>
<b>Trainings</b>	<b>Passed Publications</b>	<b>Experience</b>
<b>Research Projects</b>	<b>Presentations</b>	<b>Students Supervised</b>
<b>Scientific-Executive Records Honors,</b>	<b>Awards and Inventions</b>	<b>Professional Memberships</b>
<b>Research Interests</b>	<b>Cultural &amp; Social Activities</b>	<b>Referees</b>

**A. Personal Information**

**First Name:** Mohammad Taghi  
**Last Name:** Mohammadi  
**Date of Birth:** 1981  
**Nationality:** Iranian  
**Marital Status:** married  
**Military Service:** Passed

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*Last updated; 1397/3/10*

## B. Education

Degree	Field	Institution	City	Country	Date
Ph.D	Physiology	Shiraz University of Medical Sciences	Shiraz	Iran	2011
M.Sc	Physiology	Shiraz University of Medical Sciences	Shiraz	Iran	2007
B.Sc		Iran University of Medical Sciences	Tehran	Iran	2005

## C. Academic Appointments

Year

Academic Rank

Institution

## D. Trainings Passed

### D.I. Courses

### D.II. Workshops

1. Real-time PCR
2. Primer design
3. Western blotting
4. Cell culture
5. Reverse transcriptase PCR
6. Workshop End note program, Shiraz University of Medical Sciences
7. Workshop of Powerlab and advanced techniques in bio sciences,
8. Workshop of Course Planning in Baqiyatallah University of Medical Sciences
9. Workshop of prism and endnote Baqiyatallah University of Medical Sciences

## E. Publications

### Full Papers:

- 1- Sarami Foroshani M, Sobhani ZS, **Mohammadi MT\***, Aryafar M. Fullerenol Nanoparticles Decrease Blood-Brain Barrier Interruption and Brain Edema during Cerebral Ischemia-Reperfusion Injury Probably by Reduction of Interleukin-6 and Matrix Metalloproteinase-9 Transcription. J Stroke Cerebrovasc Dis. 2018 Nov; 27(11):3053-3065.
- 2- Yaribeygi H, **Mohammadi MT\***, Rezaee R, Sahebkar A. Crocin improves renal function by declining Nox-4, IL-18, and p53 expression levels in an experimental model of diabetic nephropathy. J Cell Biochem. 2018 Jul; 119(7):6080-6093.

- 3- Yaribeygi H, **Mohammadi MT\***, Rezaee R, Sahebkar A. Fenofibrate improves renal function by amelioration of NOX-4, IL-18, and p53 expression in an experimental model of diabetic nephropathy. *J Cell Biochem.* 2018 Sep; 119(9): 7458-7469.
- 4- Nahid Sarahian, **Mohammad Taghi Mohammadi\***, Shamsi Darabi, and Fatemeh Salem. The Effects of the Peroxisome-Proliferator Activated Receptor alpha Agonist, Fenofibrate, on the Antioxidant Capacity of the Brain in Pentylenetetrazol Kindling Seizures in Mice. *Reactive Oxygen Species.* 2019; 7(19); 47–54.
- 5- Habib Yaribeygi, **Mohammad Taghi Mohammadi**, Alexandra E. Butler, Amirhossein Sahebkar. PPAR- $\alpha$  agonist fenofibrate potentiates antioxidative elements and improves oxidative stress of hepatic cells in streptozotocin-induced diabetic animals. *Comparative Clinical Pathology.* 2018: In press.
- 6- Faghihi N, **Mohammadi MT\***. Anticonvulsant and Antioxidant Effects of Pitavastatin Against Pentylenetetrazol-Induced Kindling in Mice. *Adv Pharm Bull.* 2017 Jun;7(2):291-298.
- 7- Samira Yazdanimehr , **Mohammad Taghi Mohammadi\***. Protective effects of rosuvastatin against hyperglycemia-induced oxidative damage in the pancreas of streptozotocin-induced diabetic rats. *Physiol Pharmacol* 2018, 22(1): 19-27.
- 8- Shahnaz Mojarrab, Farideh Bahrami, Ali Khoshbaten, **Mohammad Tagi Mohammadi**, Fatemah Salem, Ali Noroozada, Amad Shojahi, Jillian Relano, Roya Mojarrab. Astaxanthin enhances catalase activity in retinal tissue of experimental diabetic rats. *Journal of Experimental and Applied Animal Sciences.* 2017; 2(2): 147-152.
- 9- Samira Yazdanimehr, **Mohammad Taghi Mohammadi\***. Evaluation of the Protective Effects of Rosuvastatin Through the Antioxidant Capacity and Oxidative Damage of Liver Tissue in Streptozotocin-induced Diabetic Rats. *Iranian Journal of Endocrinology & Metabolism.* 2018; 19(6): 399-409.
- 10- Z Jahanbakhsh, H Ghoshooni, **MT Mohammadi\***, M Salehi. Effect of Pioglitazone on Antioxidant Capacity and Oxidative Damage after Spinal Cord Injury in Rat. *J Babol Univ Med Sci,* 2018, 20(5): 16-22.
- 11- Habib Yaribeygi, Nastaran Faghihi, **Mohammad Taghi Mohammadi\***, Amirhossein Sahebkar. Effects of atorvastatin on myocardial oxidative and nitrosative stress in diabetic rats. *Comparative Clinical Pathology,* May 2018, 27(3): 691–697.
- 12- Habib Yaribeygi, **Mohammad Taghi Mohammadi\***, Amirhossein Sahebkar. PPAR- $\alpha$  Agonist Improves Hyperglycemia-Induced Oxidative Stress in Pancreatic Cells by Potentiating Antioxidant Defense System. *Drug Res (Stuttg).* 2018 Jun;68(6):355-360.
- 13- Zahra Jahanbakhsh, Hassan Ghoshooni, **Mohammad Taghi Mohammadi\***, Assessment of neuroprotective role of PPAR-gamma agonist in spinal cord injury as possible

therapeutic agents. Journal of Experimental and Applied Animal Sciences 2018; 2, (3): 251-259.

- 14- Mohammad Ehsan Bayatpoor , Saeed Mirzaee , **Mohammad Taghi Mohammadi\***. Effect of Crocin on Spermatogenesis in Streptozotocin-induced Diabetic Rats. J Mazandaran Univ Med Sci 2018, 28(165): 24-35.
- 15- Yaribeygi H, **Mohammadi MT\***, Sahebkar A. Crocin potentiates antioxidant defense system and improves oxidative damage in liver tissue in diabetic rats. Biomed Pharmacother. 2018 Feb;98:333-337.
- 16- V. Sobhani, **M. Mohammadi**, H. Shirvani, A. Amini. Long-Term Effect of High-Intensity Interval and Concurrent Exercise on Blood Coagulation and Fibrinolysis Parameters in Non-Athlete Healthy Young Men. Horizon Med Sci 2016, 22(4): 329-336.
- 17- Amini A, Sobhani V, **Mohammadi MT\***, Hshirvani H. Acute effects of aerobic, resistance and concurrent exercises, and maximal shuttle run test on coagulation and fibrinolytic activity in healthy young non-athletes. J Sports Med Phys Fitness. 2017 May;57(5):633-642.
- 18- Darabi, S., **Mohammadi, M.T\***. Fullerol potentiates the brain antioxidant defense system and decreases  $\gamma$ -glutamyl transpeptidase (GGT) mRNA during cerebral ischemia/reperfusion injury. European Journal of Nanomedicine, Volume 9, Issue 1, 1 January 2017, Pages 25-32.
- 19- Arjmand Abbassi Y, **Mohammadi MT\***, Sarami Foroshani M, Raouf Sarshoori J. Captopril and Valsartan May Improve Cognitive Function Through Potentiation of the Brain Antioxidant Defense System and Attenuation of Oxidative/Nitrosative Damage in STZ-Induced Dementia in Rat. Adv Pharm Bull. 2016 Dec;6(4):531-539.
- 20- **Mohammadi MT\***. Overproduction of nitric oxide intensifies brain infarction and cerebrovascular damage through reduction of claudin-5 and ZO-1 expression in striatum of ischemic brain. Pathol Res Pract. 2016 Nov;212(11):959-964.
- 21- Darabi, S., **Mohammadi, M.T\***. The Effect of Hydroxylated Fullerene Nanoparticles on Antioxidant Defense System in Brain Ischemia Rat. Qom Univ Med Sci J. 2017; 11 (3) :1-10.
- 22- Darabi, S., **Mohammadi, M.T\***. Fullerenol nanoparticles decrease ischaemia-induced brain injury and oedema through inhibition of oxidative damage and aquaporin-1 expression in ischaemic stroke. Brain Inj. 2017;31(8):1142-1150.
- 23- Vani JR, **Mohammadi, M.T\***, Foroshani MS, Jafari M. Polyhydroxylated fullerene nanoparticles attenuate brain infarction and oxidative stress in rat model of ischemic stroke. EXCLI J. 2016 Jun 20;15:378-90.

- 24- Masiha Aryafar, **Mohammad Taghi Mohammadi\***. EFFECT OF FULLERENE NANOPARTICLES ON BRAIN INFARCTION AND HISTOPATHOLOGICAL CHANGES DURING TRANSIENT AND FOCAL CEREBRAL ISCHEMIA IN RAT. J Urmia Univ Med Sci 2016, 27(8): 672-682.
- 25- Shamsi Darabi , **Mohammad Taghi Mohammadi\***, Ali Noroozadeh. Neuroprotective Effects of Fullerenol against Reperfusion Injuries after Focal Transient Cerebral Ischemia in Rat. J Mazandaran Univ Med Sci 2017, 26(144): 250-264.
- 26- **Mohammad Taghi Mohammadi** , Nastaran Faghihi \* , Akram Eidi. Anti-Inflammatory Effects of Atorvastatin by the Modulation of NF- $\kappa$ B Expression during Hyperglycemia-Induced Nephropathy in Rat. Iranian Journal of Diabetes and Obesity, 2016, 8(2): 77-84.
- 27- Sahebazar R, Rezazadeh E, Sadrayi H, **Mohammad Taghi Mohammadi\***. Assessment of Anti-Diabetic, Anti-Atherosclerotic and Antioxidant Effects of Combined Lemon and Garlic Extract in Diabetic Rats Fed with High Cholesterol Diet. J zanzan Univ Med Sci; 105(24); 2016; PP: 53-66.
- 28- Nastaran Faghihi, **Mohammad Taghi Mohammadi\***, Fatemeh Salem. Effect of atorvastatin on hyperglycemia-induced brain oxidative stress and neuropathy induced by diabetes. Journal of Birjand University of Medical Sciences. 2015; 21 (1): 48-58.
- 29- Simin Riahi, **Mohammad Taghi Mohammadi\***, Vahid Sobhani, Mansureh Soleimany. Effects of chronic aerobic exercise on lipid profiles, LOX-1 gene expression and free radicals in heart of rats fed high fat diet. iran J Basic Med Sci. 2015 Aug;18(8):805-12.
- 30- Simin Riahi, **Mohammad Taghi Mohammadi2\***, Vahid Sobhani, Shima Ababzadeh. Chronic aerobic exercise decreases Lectin-like low density lipoprotein (LOX-1) receptor expression in heart of diabetic rat. Iran Biomed J. 2016;20(1):26-32. Epub 2015 Oct 13.
- 31- **Mohammad Taghi Mohammadi\***, Gholam Abbas Dehghani. Acute hypertension induces brain injury and blood-brain barrier disruption through reduction of claudins mRNA expression in rat. Pathol Res Pract. 2014 Dec;210(12):985-90.
- 32- **Mohammad Taghi Mohammadi\***, Gholam Abbas Dehghani. Nitric oxide as a regulatory factor for aquaporin-1 and 4 gene expression following brain ischemia/reperfusion injury in rat. Pathol Res Pract. 2014 Aug 11. Article in press.
- 33- **Mohammadi MT**, Shid Moosavi SM, Dehghani GA. Contribution of Nitric oxide synthase (NOS) in blood brain barrier disruption during acute focal cerebral ischemia in normal rats. Phathophysiology, 19 (2012) 13-20.
- 34- **Mohammadi MT**, Pirmoradi L, Mesbah F, Safae A, Dehghani GA. Trophic actions of oral vanadium and improved glycemia on the pancreatic Beta-cell ultrastructure of streptozotocin-induced diabetic rats. JOP. 2014 Nov 28;15(6):591-6.

- 35- **Mohammadi MT**, Gaedniaye-Jahromi M, Mirjalili MH, Ramezani-Binabaj M, Jafari M, Salem F, Atorvastatin inhibits brain oxidative stress of Streptozotocin-induced diabetic rat. *Journal of Experimental and Applied Animal Science* 1 (2013) 35-43.
- 36- **Mohammad Taghi Mohammadi\***, Amini R, Jahanbakhsh Z, Shekarforoush S, Effects of Atorvastatin on the Hypertension-Induced Oxidative Stress in the Rat Brain. *Iran Biomed J* 17 (2013) 152-157.
- 37- Zahra Jahanbakhsh, Bahram Rasouljan, Mahvash Jafari, Shahnaz Shekarforoush, Mansour Esmailidehaj, **Mohammad Taghi Mohammadi**, Hasan Aghai, Maryam Salehi, Ali Khoshbaten. Protective effect of crocin against reperfusion induced cardiac arrhythmias in anesthetized rats. *EXCLI*. 2012;11:20-29.
- 38- Zahra Jahanbakhsh, **Mohammad Taghi Mohammadi\***, Mahvash Jafari, Ali Khoshbaten, Maryam Salehi, Role of oxidative stress in the aortic constriction-induced ventricle hypertrophy in rat, *Physiology&Pharmacology*, 2012, 16 (2), 146-155.
- 39- **Mohammad Taghi Mohammadi\***, Zahra Jahanbakhsh, Reza Amini, Shahnaz Shekarforoush, Behzad Mesbahzadeh. Effects of atorvastatin on the ventricle hypertrophy and myocardial oxidative stress in hypertensive rat. *J of Birjand University of Medical Sciences*, 2013, 19(6) 50-60.
- 40- **Mohammad Taghi Mohammadi\***, Mehdi Ramezani Binabaj, Mohammad Hossein Mirjalili, Mojtaba Gaedniaye Jahromi, Mahvash Jafari, Fatemeh Salem. Effect of atorvastatin on pancreatic oxidative stress in streptozotocin-induced diabetic rat. *Iranian Journal of Endocrinology & Metabolism*, 2013. 15 (2013) 197-204.
- 41- **Mohammadi MT**, Mesbah F, Dehghani GA. Vanadyl Sulphate and its Regenerative and Trophic effects on Beta Cells of Pancreas of STZ-Induced Diabetic Mellitus Rats. *Iranian Journal of Endocrinology & Metabolism*, 2007; 9 (2): 133-140.
- 42- **Mohammadi MT**, Shid Moosavi SM, Dehghani GA. Inhibition of nitric oxide synthase activity improves focal cerebral damage induced by cerebral ischemia/reperfusion in normotensive rats. *Physiology&Pharmacology*, 2010; 14(1): 23-33.
- 43- **Mohammadi MT**, Shid Moosavi SM, Dehghani GA. Contribution of Nitric Oxide Synthase (NOS) Activity in Blood-Brain Barrier Disruption and Edema after Acute Ischemia/Reperfusion in Aortic Coarctation-Induced Hypertensive Rats. *Iranian Biomedical Journal*, 2011 15: 22-30.
- 44- **Mohammad Taghi Mohammadi**, Gholam Abbas Dehghani. Evaluation of Cerebral Blood Flow Autoregulation during Early Phase of Reperfusion in Rat Model of Transient Focal Ischemia. *Journal of Babol University of Medical Sciences. J Babol Univ Med 11 Sci*; 16(6); Jun 2014.

- 45- Leila Pirmoradi, **Mohammad Taghi Mohammadi**, Akbar Safaei, Fakhardin Mesbah and Gholam Abbas Dehghani. Does the Relief of Glucose Toxicity Act As a Mediator in Proliferative Actions of Vanadium on Pancreatic Islet Beta Cells in Streptozocin Diabetic Rats? Iranian Biomedical Journal 18 (3): 173-180 (July 2014).
- 46- **Mohammad Taghi Mohammadi \***, Gholam Abbas Dehghani. Intensification of brain injury and blood-brain barrier permeability by short-term hypertension in experimental model of brain ischemia/reperfusion. Physiology&Pharmacology, 2014, 18 (1), 95-106.
- 47- Simin Riahy, **Mohammad Taghi Mohammadi \***, Vahid Sobhani. Role of oxygen and nitrogen free radicals in diabetes-induced atherosclerosis and effects of exercise on its. Physiology&Pharmacology, 2014, 18 (1), 107-121.
- 48- Javad Raouf Sarshoori, Mohammad Hossien Asadi, **Mohammad Taghi Mohammadi\***. Neuroprotective effect of olive oil on the cerebral ischemia/reperfusion injuries in rat J of Birjand University of Medical Sciences. Journal of Birjand University of Medical Sciences. 2014; 21 (1); 56-67.
- 49- Javad Raouf Sarshoori, Mohammad Hossien Asadi, **Mohammad Taghi Mohammadi\***. Neuroprotective effects of crocin on the histopathological alterations following brain ischemia-reperfusion injury in rat. Iran J Basic Med Sci. 2014 Nov;17(11):895-902.
- 50- Rahimi Mostafa\*, Shekarforoush Shahnaz, Asgari Ali-Reza, Khoshbaten Ali, Rajabi Hamid, Bazgir Behzad, **Mohammadi Mohammad Taghi**, Sobhani Vahid, Shakibaei Abolfazl. THE EFFECT OF HIGH INTENSITY INTERVAL TRAINING ON CARDIOPROTECTION AGAINST ISCHEMIA-REPERFUSION INJURY IN WISTAR RATS. EXLLI J. 2015 Feb 20;14:237-46..
- 51- Bayatpoor ME, **Mohammadi MT**, Raouf Sarshoori J. Assessment of anti-diabetic and anti-atherosclerosis effects of crocin in streptozotocin-induced diabetic rats. Iran J Pediatr; Vol 24 (Suppl 1), Mar 2014. Published by: Tehran University of Medical Sciences.
- 52- Mirzaee S, **Mohammadi M T**, Rezazade E. Evaluation of anti-hypercholesterolemic and anti-atherosclerosis effects of crocin in diabetic rats fed by high-cholesterol diet. Iran J Pediatr; Vol 24 (Suppl 1), Mar 2014. Published by: Tehran University of Medical Sciences.
- 53- Sarshoori RJ, **Mohammadi MT**, Asadi MH. Crocin improves blood-brain barrier interruption and edema following brain ischemia/reperfusion injury in rats. Iran J Pediatr; Vol 24 (Suppl 1), Mar 2014 Published by: Tehran University of Medical Sciences.
- 54- M. Aslani (BSc), **M.T. Mohammadi (PhD)**, J. Raouf Sarshoori (PhD). The Protective Effects of Atorvastatin on the Brain Injury and Neuronal Damage caused by Ischemia-reperfusion in Rats. J Babol Univ Med Sci; 17(6); Jun 2015; PP: 48-57.

- 55- Saeide Baarforoush, **Mohammad Taghi Mohammadi\***, Javad Raouf Sarshori. The Effect of Losartan (AT1 Receptor Inhibitor) on Reactive Nitrogen Species and Renal Function after Renal Ischemia-reperfusion in Rat. Qom University of Medical Sciences Journal, Vol.10, No.1, March 2016.
- 56- Arjmand Abbassi Y, Mohammadi MT, Eidi A. Protective Effects of Captopril and Valsartan on Memory Function and Gene Expression of Brain-Derived Neurotrophic Factor (BDNF) in Experimental Model of Alzheimer's Disease in Rats. J zanjan Univ Med Sci; 100(23); 2015; PP: 22-35.
- 57- Nastaran Faghihi, **Mohammad Taghi Mohammadi\***, Akram Eidi. The Effect of Atorvastatin on Oxidative Stress and Renal Function in Experimental Model of Diabetic Nephropathy. Qom University of Medical Sciences Journal Vol.9, No.11, January 2016.
- 58- Habib Yaribeygi, and **Mohammad Taghi Mohammadi1,\*** Evaluation of PPAR- $\alpha$  Agonist effect on Kidney Performance Through Increment of Nitric Oxide During Hyperglycemia-Induced Nephropathy in Rat. Razavi Int J Med. 2016 In press(In press):e37670.

### Abstract Papers:

- 1- **Mohammad Taghi Mohammadi**. Nitric oxide as a regulatory factor for aquaporin-1 and 4 gene expression following brain ischemia/reperfusion injury in rat. 6National&First international Stroke congress, 27-29 November 2013.
- 2- **Mohammadi MT**, Mesbah F, Dehghani GA. The effects of vanadyl sulphate on ultrastructure of pancreatic beta cells of experimentally-induced diabetic rats. 18th Iranian congress of physiology& pharmacology, 2007; pp209.
- 3- **Mohammadi M**, Shid Mosavi SM, Dehghan GA. Interaction of Nitric oxide (NO) with cerebral blood flow and ischemic infarct volumes during ischemic/reperfusion injuries in the normotensive rat. 19th Iranian congress of physiology& pharmacology, 2009.
- 4- **Mohammadi MT**, Jaberipour M, Shid Mosavi SM, Dehghan GA. Molecular mechanisms of blood brain barrier (BBB) disruption by nitric oxide Synthase (NOS) activity during ischemia/reperfusion injuries in rats. 20th Iranian congress of physiology& pharmacology, 2011.



- 5- **Mohammad Taghi Mohammadi**, Golam Abbas Dehghan. Acute hypertension induces brain injury and blood-brain barrier disruption through altering in junctional proteins in rats. 21th Iranian congress of physiology& pharmacology, 2013.
- 6- Javad raouf sarshoori, Mohammad Hossien Asadi, **Mohammad Taghi Mohammadi**. Neuroprotective effects of crocin on the transient focal cerebral ischemia/reperfusion injuries in rats. 21th Iranian congress of physiology& pharmacology, 2013.
- 7- Zahra Jahanbakhsh, **Mohammad Taghi Mohammadi**, Shahnaz Shekarforoush. Effects of acute arterial hypertension on the heart ischemic preconditioning in the rats. 21th Iranian congress of physiology& pharmacology, 2013.
- 8- Mehdi aslani, **Mohammad Taghi Mohammadi**. Protective effects of atorvastatin on the focal cerebral ischemia/reperfusion injuries in rat. 21th Iranian congress of physiology& pharmacology, 2013.
- 9- Zahra jahanbakhsh, **Mohammadi MT**. Effects of atorvastatin on the ventricle hypertrophy and oxidative stress in hypertensive rat myocardium. 3th Congress of Student &Research Festival, Baqiyatallah University of Medical Science.
- 10- Javad raouf sarshoori, Mohammad Hosien Asadi, **Mohammad Taghi Mohammadi**. Protective effect of Crocin on the CA1 hippocamp neurons in a rat model of ischemic stroke. 4th Congress of Student &Research Festival, Baqiyatallah University of Medical Science.
- 11- Shahnaz Shekarforoush, **Mohammad Taghi Mohammadi**. Effects of Atorvastatin on the hypertension-induced alterations of the cardio-protective roles of ischemic preconditioning. 2th international preventive cardiovascular congress, 18-18 October, 2013.
- 12- Javad raouf sarshoori, Mohammad Hosien Asadi, **Mohammad Taghi Mohammadi**. Neuroprotective effects of olive oil and alphanatocopherol on the cerebral ischemia/reperfusion injuries in rats. Congress of Anatomy, 2014.

## **E.II. Books**

## **F. Experience**

### **F.I. Teaching**

1. Teaching Physiology for Paramedical students, Shiraz University of Medical Sciences
2. Teaching Physiology for medical students, Baqiyatallah University of Medical Sciences
3. Teaching Physiology for M.Sc&Ph.D students, Baqiyatallah University of Medical Sciences

### **F.II. Clinical / Practical**

- 1- Experimental model of stroke
2. Experimental model of diabetes and Atherosclerosis
3. Measurement techniques: Real-Time PCR and ELISA

- 4- Measurement of blood brain barrier and brain edema
5. Experimental method of hypertension and Diabetes
6. Electron microscopy
7. Diabetic nephropathy
8. Alzheimer models
9. Real-time PCR
10. Primer design
11. Western blotting
12. Cell culture
13. Reverse transcriptase PCR

### **F.III. Others**

## **G. Research Projects**

- 1- Effect of statins on the oxidative stress and heart ischemic preconditioning in acute arterial hypertensive rats.
- 2- Effects of crocin and  $\alpha$ -tocopherol on the brain inflammatory responses and blood brain barrier (BBB) permeability during traumatic brain injuries in rats.
- 3- Effects of atorvastatin on the brain inflammatory responses and blood brain barrier (BBB) permeability during cerebral ischemia/reperfusion injuries in rat.
- 4- Protective effects of aerobic exercise on the cerebrovascular atherosclerosis and ischemic stroke by reduction of LOX-1 and NF-KB in diabetic rats fed with a high cholesterol diet

## **H. Presentations**

### **H.I. Domestic Conferences:**

- 1- 3<sup>th</sup> Congress of Student & Research Festival, Baqiyatallah University of Medical Sciences
- 2- 4<sup>th</sup> Congress of Student & Research Festival, Baqiyatallah University of Medical Sciences

### **H.II. International Conferences**

- 1- 18<sup>th</sup> Congress of Physiology and Pharmacology, Mashhad University of Medical Sciences
- 2- 19<sup>th</sup> Congress of Physiology and Pharmacology, Shahid Beheshti University of Medical Sciences
- 3- 20<sup>th</sup> Congress of Physiology and Pharmacology, Hamadan University of Medical Sciences
- 4- 21<sup>th</sup> Congress of Physiology and Pharmacology, Tabriz University of Medical Sciences

## **I. Students Supervised (Thesis)**

### ***Ph.D Student:***

1. Effects of crocin and  $\alpha$ -tocopherol on the brain inflammatory responses and blood brain barrier (BBB) permeability during traumatic brain injuries in rats. (Supervisor, Ph.D Thesis)
2. Protective effects of aerobic exercise on the vascular atherosclerosis by reduction of LOX-1 expression in diabetic rats fed with high fat diet. (Supervisor, Ph.D Thesis)
3. Comparison of four types of aerobic, resistance, combined (Aerobic -Resistance) and High-intensity interval exercise on coagulation factors (platelets, PT, PTT, and fibrinogen) and fibrinolysis (D-dimer) in healthy untrained young men. (Supervisor, Ph.D Thesis)
4. Effects of Crocin & fenofibrate on the Renal Functions and expression of Interlukine-18 and NADPH Oxidase-4 in experimental model of Diabetic Nephropathy
5. Effect of fullerol nanoparticle on brain edema and genes expression of aquaporin-1 and gamma glutamyle transepeptidase in experimental model of ischemic stroke

### ***M.Sc Student:***

6. Effects of atorvastatin on the brain inflammatory responses and blood brain barrier (BBB) permeability during cerebral ischemia/reperfusion injuries in rat. (Supervisor, M.Sc Thesis)
7. Effect of fullerene on the inflammatory response and blood brain-barrier permeability following focal transient cerebral ischemia in rat. (Supervisor, M.Sc Thesis)
8. Effects of central Renin-Angiotensin system inhibition on memory potentiation in experimental model of Alzheimer disease. (Supervisor, M.Sc Thesis)
9. Effects of atorvastatin on the renal function, MCP-1 and NF- $\kappa$ B levels in the experimental model of diabetic nephropathy. (Supervisor, M.Sc Thesis)

10. Effects of atorvastatin and losartan on the renal function and expression of TGF-B and MCP-1 following renal ischemia-reperfusion injuries in rat. (Supervisor, M.Sc Thesis)
11. Effects of fullerene on the oxidative and nitrosative stress following cerebral ischemia/reperfusion injury in rat. (Supervisor, M.Sc Thesis)
12. Combination effect of fullerene and olive oil on the extrinsic neuronal apoptotic pathway (FasL) during brain ischemia in rat. (Supervisor, M.Sc Thesis)
13. Study of fullerene effects on the brain edema and intrinsic neuronal apoptotic pathway (Bax/Bcl-2) during brain ischemia in rat. (Supervisor, M.Sc Thesis)
14. Protective effects of fullerene on the brain in experimental model of Alzheimer disease in rat. (Supervisor, M.Sc Thesis)
15. Effects of lemon and garlic extracts on the histopathological changes of vascular and pancreas tissue and LOX-1 expression in diabetic rats fed with high cholesterol diet

## **J. Scientific-Executive Records**

## **K. Honors, Awards and Inventions**

## **L. Professional Memberships**

## **M. Research Interests**

1. Brain Ischemia/Reperfusion injuries, blood brain barrier permeability and cerebral edema
2. Heart Ischemia/Reperfusion injuries
3. Experimental model of diabetes and hypertension
4. Molecular biology and cell physiology
5. Atherosclerosis
6. Cell culture & cloning
7. RNA & DNA technology

## **N. Cultural & Social Activities**

1. Part of Basij Organization
2. Participation in the Marefat Forum in Baqiyatallah University of Medical Sciences

## **O. Referees**

1. Professor Golam abbas dehghan, (Shiraz University of Medical Sciences)
2. Dr. Mostafa Shid Moosavi (Shiraz University of Medical Sciences)
3. Professor Ali khoshbaten. (Baqiyatallah University of Medical Sciences)
4. Professor Alireza Asgari (Baqiyatallah University of Medical Sciences)